

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An image sensor, comprising:

a plurality of photoelectric converting elements that convert an optical signal to an electric signal, each of the photoelectric converting elements being provided with an electric charge output port;

a common signal line that is connected to the electric charge output port of each of the photoelectric converting elements;

a group of channel selection switches that are disposed between the common signal line and each of the photoelectric converting elements and that turns on and off between the electric charge output port and the common signal line;

a resolution switching device that inputs a first signal, a second signal, and a third signal, that further reads an on-off pattern of the third signal by sampling whether the third signal is high or low, when the first signal is on, at a timing of a rising or falling edge of the second signal, and that sill further outputs a resolution switching signal according to a ~~resolution to be set based on an instruction of a resolution setting;~~ the on-off pattern of the third signal; and

a control signal generator that determines an ON-OFF control pattern of the group of channel selection switches, based on the resolution switching signal, and supplies a drive signal to the group of the channel selection switches, based on the determined ON-OFF control pattern.

2. (Canceled)

3. (Original) The image sensor according to claim 1, wherein the control signal generator is a shift register group including flip-flops provided in association with the group

of channel selection switches and a selector switch that switches operation timings of the flip-flops, and the ON-OFF control pattern of the group of channel selection switches is determined by setting the selector switch based on the resolution switching signal output from the resolution switching device.

4. (Currently Amended) The image sensor according to ~~claim 2~~claim 1, wherein an on and off of the third signal at the timing of the rising or falling edge of the second signal is expressed as binary data and the resolution switching signal is output based on the binary data.

5. (Currently Amended) The image sensor according to ~~claim 2~~claim 1, wherein the first signal, the second signal, and the third signal are any of a control signal for setting the resolution, a start signal for starting the shift register group, and a clock pulse signal that are input from an external device.

6. (Original) The image sensor according to claim 5, wherein when one of the second signal and the third signal is the start signal, the start signal does not start the shift register group for a predetermined period of time from the rising or falling edge of the first signal.

7. (Original) The image sensor according to claim 5, wherein when the first signal is the start signal, an on-off control for the shift register group is started based on the falling edge of the first signal.

8. (Original) The image sensor according to claim 5, wherein the second signal is the clock pulse signal.

9. (Original) The image sensor according to claim 1, wherein the resolution switching signal is output for every line of an image to be read.

10. (Original) The image sensor according to claim 1, wherein the resolution switching signal is output for every page of an image to be read.

11. (Original) The image sensor according to claim 3, wherein when a resolution other than a maximum resolution is set, the shift register group turns on at least two of the plurality of the channel selection switches on at substantially the same time, according to the set resolution.

12. (Original) The image sensor according to claim 1, wherein the image sensor outputs a signal including a resolution signal indicative of the resolution.

13. (Original) The image sensor according to claim 5, wherein at least four resolutions are selectable based on the three signals.

14. (Original) The image sensor according to claim 1, wherein when a resolution signal indicative of a resolution indicates an inappropriate resolution, image reading is stopped.

15. (Original) An image reading device, comprising:
a supply portion that supplies sheets;
a reading head that reads the supplied sheets, wherein the reading head includes the image sensor of claim 1; and
a discharge portion that receives the sheet that has been read by the reading device.

16. (Currently Amended) A method of reading an image with an image sensor comprising a plurality of photoelectric converting elements that convert an optical signal to an electric signal, each of the photoelectric converting elements being provided with an electric charge output port, a common signal line that is connected to the electric charge output port of each of the photoelectric converting elements, a group of channel selection switches that are disposed between the common signal line and each of the photoelectric converting elements and that turns on and off between the electric charge output port and the common signal line, comprising:

inputting a first signal, a second signal, and a third signal;
reading an on-off pattern of the third signal by sampling whether the third
signal is high or low, when the first signal is on, at a timing of a rising or falling edge of the
second signal;

outputting a resolution switching signal according to ~~a resolution to be set~~
~~based on an instruction of a resolution setting; the on-off pattern read by the step of reading;~~

determining an ON-OFF control pattern of the group of channel selection
switches, based on the outputted resolution switching signal; and

supplying a drive signal to the group of channel selection switches, based on
the determined ON-OFF control pattern.

17. (Canceled)

18. (Currently Amended) The method of ~~claim 17~~claim 16, wherein the first
signal, the second signal, and the third signal are any of a control signal for setting the
resolution, a start signal for starting the shift register group, and a clock pulse signal that are
input from an external device.

19. (Original) The method of claim 16, wherein the resolution switching signal is
output with a shift register group including flip-flops provided in association with the group
of channel selection switches and a selector switch that switches operation timings of the flip-
flops, and the ON-OFF control pattern of the group of channel selection switches is
determined by setting the selector switch based on the output resolution switching signal.

20. (Original) The method of claim 19, wherein when a resolution other than a
maximum resolution is set, the shift register group turns on at least two of the plurality of the
channel selection switches on at substantially the same time, according to the set resolution.